UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND SCIENCE
DEPARTMENT OF BIOLOGY EDUCATION
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Bachelor of Science in Biology **MODULE HANDBOOK**

Module name:	Laboratory Work in Ornithology
Module level, if applicable:	Undergraduate
Code:	BIO6155
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	Even
Module coordinator:	Rio Christy Handziko S.Pd.Si., M.Pd.
Lecturer(s):	Rio Christy Handziko S.Pd.Si., M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual studyper week
Work load:	Total workload is 91 hours per semester which consists of 100 minuteslectures, 120 minutes structured activities, and 120 minutes individual study per weekfor 16 weeks.
Credit points:	2 SKS (3,28 ECTS)
Prerequisites course(s):	Laboratory Work in Vertebrate Biology
Perogram Learning Outcomes:	4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences 5. Mastering the techniques and methodologies in Biology as well as familiar with the equipment used in Biology laboratories in order to get the knowledge of Biology (how we know what we know) 6. Being adaptive, creative, innovative in applying the concepts of

<table>
<tr><td></td><td>Biology and other related fields.
7. Being skillful in applying the techniques used in laboratories and daily life
9. Being able to work and create jobs/being an entrepreneur in the field of Biology.
10. Having managerial ability to supervise and evaluate workers and optimizing the networks in order to develop professionalism
11. Possessing scientific skills to support the ability to speak in local, national, and international forums</td></tr>
<tr><td>Course Outcomes</td><td>After taking this course, the students have ability to:
CO1. Memahami proses identifikasi burung.
CO2. Mengaplikasikan alat pengamatan burung.
CO3. Memahami hubungan antara ekosistem, distribusi dan jenis burung.
CO4. Mengidentifikasi burung berdasar habitat dan komponen ekosistem lainnya.
CO5. Memahami teknik pengamatan dan teknik dokumentasi burung.
CO6. Menyusun Rancangan penelitian pengamatan burung.
CO7. Mengamati burung di habitatnya.
CO8. Menganalisis ciri morfologi kedalam sistematika taksa.
CO9. Menganalisis ciri anatomi kedalam sistematika taksa.
CO10. Menganalisis perilaku burung menjadi ethogram.
CO11. Menyusun artikel ilmiah hasil dari pengamatan.</td></tr>
<tr><td>Content:</td><td>Mata praktikum ini mengkaji tentang proses identifikasi burung dari ciri morfologis, anatomis dan juga perilaku lalu mengaplikasikan ciri tersebut kedalam sistem taksa. Setiap jenis burung memiliki penanda jenis yang khas yang memiliki perilakunya masing-masing, penelitian dilakukan untuk mengamati perilaku khas dari satu jenis burung. Menyusun ethogram dari data pengamatan dan menyusunnya menjadi artikel ilmiah.</td></tr>
<tr><td>Study/examachievements:</td><td>The final mark will be weight as follow:
<table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1 to CO12</td><td>Observed attitudes , knolwedge, and skills</td><td>Survey, test, rubrics and manuals</td><td>100%</td></tr><tr><td colspan="3"></td><td>Total</td><td>100%</td></tr></table></td></tr>
<tr><td>Forms of media:</td><td>Real objects, model, multimedia</td></tr>
<tr><td>Reference:</td><td>A. Harrison, C., and Greensmith, A. 1993. Birds of The World. UK : Dorling Kindersley.

B. Scott, Graham. 2010. Essential Ornithology. New York : Oxford University Press.</td></tr>
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	C. Lovette, I. J., and John W.F. 2016. *Handbook of Bird Biology Third Edition.* UK : John Wiley & Sons Ltd. D. Birkhead, T., Jo W., and Bob M. 2014. *Ten Thousand Birds : Ornithology since Darwin.* UK : Princeton University Press E. Sutherland, W. J., Newton, I., and Green, R. E. 2004. *Bird Ecology and Conservation, a Handbook of Techniques.* New York, USA. Oxford University Press. F. Stotz, D. F., Fitzpatrick, J. W., Parker, T. A. and Moskovits, D. K. 1996. *Neotropical Birds Ecology and Conservation, With Ecological and Distributional Databases.* Chicago, USA. University Chicago Press. G. MacKinnon, J., Philipps, K. 1993. *A Field Guide to the Birds of Borneo, Sumatra, Java, and Bali: The Greater Sunda Islands.* Oxford, USA. Oxford University Press.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓	✓	✓	✓		✓		
CO2				✓	✓	✓	✓		✓		
CO3				✓		✓			✓	✓	
CO4					✓	✓	✓		✓	✓	
CO5					✓		✓		✓	✓	
CO6					✓		✓		✓	✓	
CO7					✓		✓		✓	✓	
CO8					✓		✓		✓	✓	
CO9					✓		✓		✓	✓	
CO10										✓	✓
CO11										✓	✓